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Multimedia Computing and Systems, 1999. IEEE International Conference on , Volume: 2 , 7-11 June 1999
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1 Special issue on word sense disambiguation: Topical clustering of MRD senses based on information retrieval techniques
Jen Nan Chen, Jason S. Chang
March 1998 **Computational Linguistics**, Volume 24 Issue 1
Full text available: pdf(2.08 MB) Publisher Site
Additional Information: full citation, abstract, references

This paper describes a heuristic approach capable of automatically clustering senses in a machine-readable dictionary (MRD). Including these clusters in the MRD-based lexical database offers several positive benefits for word sense disambiguation (WSD). First, the clusters can be used as a coarser sense division, so unnecessarily fine sense distinction can be avoided. The clustered entries in the MRD can also be used as materials for supervised training to develop a WSD system. Furthermore, if t ...

2 Reducing pause time of conservative collectors
Toshio Endo, Kenjiro Taura
June 2002 **ACM SIGPLAN Notices , Proceedings of the third international symposium on Memory management**, Volume 38 Issue 2 supplement
Full text available: pdf(182.62 KB)
Additional Information: full citation, abstract, references, citings, index terms

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Keywords: concurrent garbage collection, conservative garbage collection, memory management, parallel garbage collection

3 TAGs as a grammatical formalism for generation
David D. McDonald, James D. Pustejovsky
July 1985 **Proceedings of the 23rd conference on Association for Computational Linguistics**
Full text available: pdf(776.69 KB)
Additional Information: full citation, abstract, references

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Tree Adjoining Grammars, or "TAG's", (Joshi, Levy & Takahashi 1975; Joshi 1983; Kroch & Joshi 1985) were developed as an alternative to the standard syntactic formalisms that are used in theoretical analyses of language. They are attractive because they may provide just the aspects of context sensitive expressive power that actually appear in human languages while otherwise remaining context free.This paper describes how we have applied the theory of Tree Adjoining Grammars to natural language g ...

4 The FINITE STRING Newsletter: Abstracts of current literature
Computational Linguistics Staff
January 1987 **Computational Linguistics**, Volume 13 Issue 1-2
Full text available: pdf(6.15 MB) Publisher Site Additional Information: full citation

5 The design and implementation of hierarchical software systems with reusable components
Don Batory, Sean O'Malley
October 1992 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 1 Issue 4
Full text available: pdf(3.15 MB) Additional Information: full citation, abstract, references, citings, index terms, review

We present a domain-independent model of hierarchical software system design and construction that is based on interchangeable software components and large-scale reuse. The model unifies the conceptualizations of two independent projects, Genesis and Avoca, that are successful examples of software component/building-block technologies and domain modeling. Building-block technologies exploit large-scale reuse, rely on open architecture software, and elevate the granularity of programming to ...

Keywords: domain modeling, open system architectures, reuse, software building-blocks, software design

6 The object-oriented implementation of a document editor
Paul Calder, Mark Linton
October 1992 **ACM SIGPLAN Notices , conference proceedings on Object-oriented programming systems, languages, and applications**, Volume 27 Issue 10
Full text available: pdf(1.32 MB) Additional Information: full citation, references, citings, index terms

7 An effective garbage collection strategy for parallel programming languages on large scale distributed-memory machines
Kenjiro Taura, Akinori Yonezawa
June 1997 **ACM SIGPLAN Notices , Proceedings of the sixth ACM SIGPLAN symposium on Principles and practice of parallel programming**, Volume 32 Issue 7
Full text available: pdf(1.43 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes the design and implementation of a garbage collection scheme on large-scale distributed-memory computers and reports various experimental results. The collector is based on the conservative GC library by Boehm &amp; Weiser. Each processor traces local pointers using the GC library while traversing remote pointers by exchanging "mark messages" between processors. It exhibits a promising performance---in the most space-intensive settings we tested, the total collection ove ...

8 Parallel execution of prolog programs: a survey
Gopal Gupta, Enrico Pontelli, Khayri A.M. Ali, Mats Carlsson, Manuel V. Hermenegildo
July 2001 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 23 Issue 4
Full text available: pdf(1.95 MB) Additional Information: full citation, abstract, references, citings, index terms

Since the early days of logic programming, researchers in the field realized the potential for exploitation of parallelism present in the execution of logic programs. Their high-level nature, the presence of nondeterminism, and their referential transparency, among other characteristics, make logic programs interesting candidates for obtaining speedups through parallel execution. At the same time, the fact that the typical applications of logic programming frequently involve irregular computatio ...

Keywords: Automatic parallelization, constraint programming, logic programming, parallelism, prolog

9 Nonmonotonic Logic II: Nonmonotonic Modal Theories
Drew McDermott
January 1982 **Journal of the ACM (JACM)**, Volume 29 Issue 1
Full text available: pdf(1.33 MB) Additional Information: full citation, references, citings, index terms

10 Compiling nested data-parallel programs for shared-memory multiprocessors
Siddhartha Chatterjee
July 1993 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 15 Issue 3
Full text available: pdf(4.17 MB) Additional Information: full citation, references, citings, index terms, review

Keywords: compilers, data parallelism, shared-memory multiprocessors

11 Projecting functional models of imperative programs
M. Harman, S. Danicic
November 1993 **ACM SIGPLAN Notices**, Volume 28 Issue 11
Full text available: pdf(720.28 KB) Additional Information: full citation, abstract, citings, index terms

Functional modelling [17,29] enables functional reasoning methods to be applied to programs written in imperative languages. It is, however, the view of many workers [4, 24] that it is not the notation in which a program is written, but the sheer *size* of a program which prohibits the application of reasoning and proof techniques.The beauty of Projection is that *simple* aspects of programs have correspondingly *simple* models, irrespective of the size and complexity of the overa ...

12 Fast Prolog with an extended general purpose architecture
Bruce K. Holmer, Barton Sano, Michael Carlton, Peter Van Roy, Ralph Haygood, William R. Bush, Alvin M. Despain, Joan M. Pendleton, Tep Dobry
May 1990 **ACM SIGARCH Computer Architecture News , Proceedings of the 17th annual international symposium on Computer Architecture**, Volume 18 Issue 3
Full text available: pdf(1.19 MB) Additional Information: full citation, abstract, references, citings, index

terms

Most Prolog machines have been based on specialized architectures. Our goal is to start with a general purpose architecture and determine a minimal set of extensions for high performance Prolog execution. We have developed both the architecture and optimizing compiler simultaneously, drawing on results of previous implementations. We find that most Prolog specific operations can be done satisfactorily in software; however, there is a crucial set of features that the architecture must suppor ...

13 Perceptual user interfaces: perceptual intelligence
Alex Pentland
March 2000 **Communications of the ACM**, Volume 43 Issue 3
Full text available: pdf(812.65 KB) html(33.98 KB) Additional Information: full citation, references, citings, index terms

14 The Ada issues: A readers' guide to the Ada issues
Erhard Ploedereder
May 1998 **ACM SIGAda Ada Letters**, Volume XVIII Issue 3
Full text available: pdf(2.84 MB) Additional Information: full citation

15 Methods for the administration of textual data in database systems
H.-J. Schek
June 1980 **Proceedings of the 3rd annual ACM conference on Research and development in information retrieval**
Full text available: pdf(848.18 KB) Additional Information: full citation, references, citings

16 Much ado about patterns
Robert Zubek
September 1998 **Crossroads**, Volume 5 Issue 1
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17 A parallel Prolog: The construction of a data driven model
Michael J. Wise
August 1982 **Proceedings of the 1982 ACM symposium on LISP and functional programming**
Full text available: pdf(835.03 KB) Additional Information: full citation, abstract, references, citings, index terms

An argument is presented for the implementation of a Prolog-like language using data driven execution, as a step towards the solution of the problems associated with multiprocessor machine architectures. To facilitate this, a number of changes and extensions to the execution control mechanism of Prolog have been implemented. Among the notable features of the system are the use of conditional AND (CAND) and conditional OR (COR) constructs to allow the programmer sequential control in the con ...

18 Profile-based optimizations: Optimal and efficient speculation-based partial redundancy elimination
Qiong Cai, Jingling Xue

March 2003 **Proceedings of the international symposium on Code generation and optimization: feedback-directed and runtime optimization**

Full text available: pdf(1.02 MB) Publisher Site Additional Information: full citation, abstract, references

Existing profile-guided partial redundancy elimination (PRE) methods use speculation to enable the removal of partial redundancies along more frequently executed paths at the expense of introducing additional expression evaluations along less frequently executed paths. While being capable of minimizing the number of expression evaluations in some cases, they are, in general, not computationally optimal in achieving this objective. In addition, the experimental results for their effectiveness are ...

19 Atomic garbage collection: managing a stable heap

Elliot Kolodner, Barbara Liskov, William Weihl

June 1989 **ACM SIGMOD Record , Proceedings of the 1989 ACM SIGMOD international conference on Management of data**, Volume 18 Issue 2

Full text available: pdf(1.53 MB) Additional Information: full citation, abstract, references, citings, index terms

Modern database systems use transactions to achieve a high degree of fault-tolerance. Many modern programming languages and systems provide garbage collected heap storage, which frees the programmer from the job of explicitly deallocating storage. In this paper we describe integrated garbage collection and recovery algorithms for managing a stable heap in which accessible objects survive both system crashes and media failures. A garbage collector typically both m ...

20 Reflection and semantics in LISP

Brian Cantwell Smith

January 1984 **Proceedings of the 11th ACM SIGACT-SIGPLAN symposium on Principles of programming languages**

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5 Special issue on word sense disambiguation: Topical clustering of MRD senses based on information retrieval techniques
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May 1998 **ACM SIGAda Ada Letters**, Volume XVIII Issue 3
Full text available: pdf(2.84 MB) Additional Information: full citation

8 Writing Larch interface language specifications
Jeannette M. Wing
January 1987 **ACM Transactions on Programming Languages and Systems (TOPLAS),** Volume 9 Issue 1
Full text available: pdf(1.90 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Current research in specifications is emphasizing the practical use of formal specifications in program design. One way to encourage their use in practice is to provide specification languages that are accessible to both designers and programmers. With this goal in mind, the Larch family of formal specification languages has evolved to support a two-tiered approach to writing specifications. This approach separates the specification of state transformations and programming language dependen ...

9 Nonmonotonic Logic II: Nonmonotonic Modal Theories
Drew McDermott
January 1982 **Journal of the ACM (JACM),** Volume 29 Issue 1
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14 Reducing pause time of conservative collectors

Toshio Endo, Kenjiro Taura

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15 Profile-based optimizations: Optimal and efficient speculation-based partial redundancy elimination

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16 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

17 Machine translation divergences: a formal description and proposed solution

Bonnie J. Dorr

December 1994 **Computational Linguistics**, Volume 20 Issue 4

Full text available: pdf(2.41 MB) Publisher Site Additional Information: full citation, abstract, references

There are many cases in which the natural translation of one language into another results in a very different form than that of the original. The existence of translation divergences (i.e., crosslinguistic distinctions) makes the straightforward transfer from source structures into target structures impractical. Many existing translation systems have mechanisms for handling divergent structures but do not provide a general procedure that takes advantage of takes advantage of the systematic rela ...

18 GLR parsing with multiple grammars for natural language queries

Helen Meng, Po-Chui Luk, Kui Xu, Fuliang Weng

June 2002 **ACM Transactions on Asian Language Information Processing (TALIP)**, Volume 1 Issue 2

Full text available: pdf(372.33 KB) Additional Information: full citation, abstract, references, index terms

This article presents an approach for parsing natural language queries that integrates multiple subparsers and subgrammars, in contrast to the traditional single grammar and parser approach. In using *LR(k)* parsers for natural language processing, we are faced with the problem of rapid growth in parsing table sizes as the number of grammar rules increases. We propose to partition the grammar into multiple subgrammars, each having its own parsing table and parser. Grammar partitioning helps ...

Keywords: generalized LR parsing, grammar partitioning, lattice with multiple granularities, parser composition

19 Session I: Content creation: A meta-authoring tool for specifying interactions in virtual reality environments

Zayd Hendricks, Gary Marsden, Edwin Blake

February 2003 **Proceedings of the 2nd international conference on Computer graphics, virtual Reality, visualisation and interaction in Africa**

Full text available: pdf(286.80 KB) Additional Information: full citation, abstract, references, index terms

When creating virtual reality environments a large amount of the interaction needs to be programmed. The problem with this is that non-computer expert users lack the programming skills necessary to create useful applications. Specifying interactions remains in the domain of the programmer. Creating a single, generic authoring tool for every different kind of application would be an impossible task -- more so if the authors are non-programmers. A more realistic solution to the problem would be to ...

Keywords: behavior, interaction, migrating user support, scripting languages, virtual reality, virtual reality authoring

20 Translator writing systems

Jerome Feldman, David Gries

February 1968 **Communications of the ACM**, Volume 11 Issue 2

Full text available: pdf(4.47 MB) Additional Information: full citation, abstract, references, citings

A critical review of recent efforts to automate the writing of translators of programming languages is presented. The formal study of syntax and its application to translator writing are discussed in Section II. Various approaches to automating the postsyntactic (semantic) aspects of translator writing are discussed in Section III, and several related topics in Section IV.

Keywords: compiler compiler-compiler, generator, macroprocessor, meta-assembler, metacompiler, parser, semantics, syntactic analysis, syntax, syntax-directed, translator, translator writing system

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